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L2	452	1 and event and activity and attribute	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:50
L3	9	1 and (event same activity same attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:50
L4	813	(event same activity same attribute)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:50
L5	113	4 and process and (date near time) and equipment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:51
L6	38	5 and "707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/08 11:52
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1 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

2 Discovering models of software processes from event-based data

Jonathan E. Cook, Alexander L. Wolf

July 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(369.76 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many software process methods and tools presuppose the existence of a formal model of a process. Unfortunately, developing a formal model for an on-going, complex process can be difficult, costly, and error prone. This presents a practical barrier to the adoption of process technologies, which would be lowered by automated assistance in creating formal models. To this end, we have developed a data analysis technique that we term process discovery. Under this technique, data ...

Keywords: Balboa, process discovery, software process, tools

3 Software process validation: quantitatively measuring the correspondence of a process to a model

Jonathan E. Cook, Alexander L. Wolf

April 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 2

Publisher: ACM Press

Full text available: pdf(267.69 KB) Additional Information: full citation, abstract, references, citings, index terms

To a great extent, the usefulness of a formal model of a software process lies in its ability

to accurately predict the behavior of the executing process. Similarly, the usefulness of an executing process lies largely in its ability to fulfill the requirements embodied in a formal model of the process. When process models and process executions diverge, something significant is happening. We have developed techniques for uncovering and measuring the discrepancies between models and executio ...

Keywords: balboa, process validation, software process, tools

4 Building reusable simulators using hierarchical event graphs

Lee W. Schruben

December 1995 **Proceedings of the 27th conference on Winter simulation WSC '95**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(303.68 KB) Additional Information: full citation, abstract, references, index terms

Hierarchical event graphs are an easy way to build special purpose simulators. At the lowest level, event graphs are created to represent particular components of the system being simulated; steps in a process flow, or hyper-events. These low-level graphs can then be viewed as different classes of vertices that make up the next higher level graph. A special purpose simulation toolkit is thus developed. Three very different types of hierarchical event-graph simulation toolkits are discussed in th ...

5 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)

September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(1.98 MB) Additional Information: full citation, index terms

6 Task based groupware design: putting theory into practice

Gerrit van der Veer, Martijn van Welie

August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques DIS '00**

Publisher: ACM Press

Full text available: pdf(599.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Designing Groupware systems requires methods and tools that cover all aspects of Groupware systems. We present a method that utilizes known theoretical insights and makes them usable in practice. In our method, the design of Groupware systems is driven by an extensive task analysis followed by structured design and iterative evaluation using usability criteria. Using a combination of multiple complementary representations and techniques, a wide range of aspects of Groupware design is covere ...

Keywords: DUTCH, EUTERPE, GTA, design method, groupware, task analysis, tools

7 Assessing process-centered software engineering environments

Vincenzo Ambriola, Reidar Conradi, Alfonso Fuggetta

July 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(342.52 KB) terms, review

Process-centered software engineering environments (PSEEs) are the most recent generation of environments supporting software development activities. They exploit an representation of the process (called the process model that specifies how to carry out software development activities, the roles and tasks of software developers, and how to use and control software development tools. A process model is therefore a vehicle to better understand and communicate the process. If ...

Keywords: CASE, enabling technology, process modeling languages, process-centered software engineering environments, software process

8 From formal models to formally based methods: an industrial experience

Emanuele Ciapessoni, Piergiorgio Mirandola, Alberto Coen-Porisini, Dino Mandrioli, Angelo Morzenti

January 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(239.61 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We address the problem of increasing the impact of formal methods in the practice of industrial computer applications. We summarize the reasons why formal methods so far did not gain widespead use within the industrial environment despite several promising experiences. We suggest an evolutionary rather than revolutionary attitude in the introduction of formal methods in the practice of industrial applications, and we report on our long-standing experience which involves an academic institut ...

Keywords: formal models, industrial applications, object orientation, specification, supervision and control, technology transfer

9 Article abstracts with full text online: Universal software safety standard

P. V. Bhansali

September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(200.89 KB) Additional Information: full citation, abstract, references, index terms

This paper identifies the *minimum* subset required for a truly universal safety-critical software standard. This universal software standard could be used in but is not limited to the following application domains: commercial, military and space aviation; medical diagnostic and therapeutic instruments; automotive and transportation systems; industrial process control and robotics; nuclear power plants and weapons control; commercial appliances and ride electronics. The standard takes into ...

Keywords: software safety, system safety, validation, verification

10 Simulation of Real-Time Systems: An Object-Oriented Approach Supported by a Virtual Reality- Based Tool

Tereza Goncalves Kirner, Claudio Kirner

April 2005 **Proceedings of the 38th annual Symposium on Simulation ANSS '05**

Publisher: IEEE Computer Society

Full text available: pdf(139.30 KB) Additional Information: full citation, abstract, index terms

This article intends to demonstrate the applicability and usefulness of Virtual Reality (VR)

technology to support Real-Time Systems (RTS) simulations, as a form to evaluate the correctness of such systems. The Virtual Reality SIMulation (VR-SIM), a tool which incorporates VR modeling resources, is presented. This tool offers support to simulate the behavior of RTS, checking the scheduling of processes and timing constraints. The main conceps of RTS, simulation and VR are presented, the VR-SIM a ...

11 Distributed artificial intelligence: an annotated bibliography

B. Chaib-draa, R. Mandiau, P. Millot
August 1992 **ACM SIGART Bulletin**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: pdf(2.47 MB) Additional Information: full citation, index terms

12 Human-Computer Interaction in the Control of Dynamic Systems

William B. Rouse
March 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 1
Publisher: ACM Press
Full text available: pdf(2.77 MB) Additional Information: full citation, abstract, references, citings, index terms

Modes of human-computer interaction in the control of dynamic systems are discussed, and the problem of allocating tasks between human and computer considered. Models of human performance in a variety of tasks associated with the control of dynamic systems are reviewed. These models are evaluated in the context of a design example involving human-computer interaction in aircraft operations. Other examples include power plants, chemical plants, and ships.

Keywords: aircraft, control, dynamic systems, human-computer interaction, mathematical models, system design, task analysis

13 High-performance operating system primitives for robotics and real-time control systems

Karsten Schwan, Tom Bihari, Bruce W. Weide, Gregor Taulbee
August 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 3
Publisher: ACM Press
Full text available: pdf(3.49 MB) Additional Information: full citation, abstract, references, citings, index terms

To increase speed and reliability of operation, multiple computers are replacing uniprocessors and wired-logic controllers in modern robots and industrial control systems. However, performance increases are not attained by such hardware alone. The operating software controlling the robots or control systems must exploit the possible parallelism of various control tasks in order to perform the necessary computations within given real-time and reliability constraints. Such so ...

14 Integrating discrete-event simulation with statistical process control charts for transitions in a manufacturing environment

Harriet Black Nembhard, Ming-Shu Kao, Gino Lim
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1 WSC '99**
Publisher: ACM Press
Full text available: pdf(152.40 KB) Additional Information: full citation, references, index terms

15 Applying active database models for simulation

A. Cornelio, Shamkant B. Navathe
December 1993 **Proceedings of the 25th conference on Winter simulation WSC '93**
Publisher: ACM Press
Full text available: pdf(926.40 KB) Additional Information: full citation, references, citings

16 A model parametric real-time logic

Angelo Morzenti, Dino Mandrioli, Carlo Ghezzi
October 1992 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: pdf(3.54 MB) Additional Information: full citation, abstract, references, citings, index terms, review

TRIO is a formal notation for the logic-based specification of real-time systems. In this paper the language and its straightforward model-theoretic semantics are briefly summarized. Then the need for assigning a consistent meaning to TRIO specifications is discussed, with reference to a variety of underlying time structures such as infinite-time structures (both dense and discrete) and finite-time structures. The main motivation is the ability to validate formal specifications. A solution ...

Keywords: first-order logic, formal specifications, model-theoretic semantics, real-time systems, requirements validation, temporal logic

17 Process modeling

Bill Curtis, Marc I. Kellner, Jim Over
September 1992 **Communications of the ACM**, Volume 35 Issue 9
Publisher: ACM Press
Full text available: pdf(3.56 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: analysis, modeling

18 An overview of the PAISLey project-1984

Pamela Zave
July 1984 **ACM SIGSOFT Software Engineering Notes**, Volume 9 Issue 4
Publisher: ACM Press
Full text available: pdf(756.60 KB) Additional Information: full citation, abstract, references, citings

PAISLey is an executable specification language that is especially well suited to real-time and distributed systems. It is motivated by an approach to software development based on the separation of problem-oriented from implementation-oriented concerns, and promising several substantial benefits over conventional development cycles. The language is executed by an interpreter that provides capabilities for debugging specifications, giving demonstrations to customers, early performance simulation ...

19 Future of simulation: Determining the ROI for simulation, panel: increasing return on investment from simulation (panel)

Randall Gibson, D. J. Medeiros, Andrew Sudar, Bill Waite, Matthew W. Rohrer
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**
Publisher: Winter Simulation Conference
Full text available: pdf(297.75 KB) Additional Information: full citation, abstract, references

Growth in the use of simulation technology has been less than expected. Today there are still many applications that could benefit from simulation, but that do not use it. As companies decide whether to use simulation, they need to consider the investment and all possible benefits.

In this panel, four simulation professionals from academia and industry answer two questions about Return on Investment (ROI) and simulation.

20 Computer-assisted instruction: specification of attributes for CAI programs and programmers
Gloria M. Silvern, Leonard C. Silvern
July 1966 **Communications of the ACM**, Volume 9 Issue 7
Publisher: ACM Press
Full text available: pdf(654.43 KB) Additional Information: full citation

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D. Sriram, R. Joobbani

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Publisher: ACM Press

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Jonathan E. Cook, Alexander L. Wolf

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Publisher: ACM Press

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Keywords: Balboa, process discovery, software process, tools

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Jonathan E. Cook, Alexander L. Wolf

April 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 2

Publisher: ACM Press

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Angelo Morzenti, Dino Mandrioli, Carlo Ghezzi
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Publisher: ACM Press

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5 Task based groupware design: putting theory into practice

Gerrit van der Veer, Martijn van Welie
August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques DIS '00**
Publisher: ACM Press

Full text available: pdf(599.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Designing Groupware systems requires methods and tools that cover all aspects of Groupware systems. We present a method that utilizes known theoretical insights and makes them usable in practice. In our method, the design of Groupware systems is driven by an extensive task analysis followed by structured design and iterative evaluation using usability criteria. Using a combination of multiple complementary representations and techniques, a wide range of aspects of Groupware design is covere ...

Keywords: DUTCH, EUTERPE, GTA, design method, groupware, task analysis, tools

6 Distributed artificial intelligence: an annotated bibliography

B. Chaib-draa, R. Mandiau, P. Millot
August 1992 **ACM SIGART Bulletin**, Volume 3 Issue 3
Publisher: ACM Press

Full text available: pdf(2.47 MB) Additional Information: full citation, index terms

7 Computational Approaches to Image Understanding

Michael Brady
March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Publisher: ACM Press
Full text available: pdf(10.04 MB) Additional Information: full citation, references, citings, index terms

8 Systems: YABLE—yet another behaviour language

Tony Burrows, David England
March 2005 **Proceedings of the tenth international conference on 3D Web technology Web3D '05**
Publisher: ACM Press
Full text available: pdf(166.09 KB) Additional Information: full citation, abstract, references

There is an increasing use of virtual environments for applications ranging from education to industrial processes, behavioural modification and games. While tools have been written to enable end users to generate static environments, little has been done with respect to dynamic ones, where behaviour is a major element for believability. This is still very much the province of the programmer.This paper examines the current state of virtual reality development with particular reference to the spe ...

9 Poster Sessions: NKRL, a knowledge representation language for narrative natural language processing

Gian Piero Zarri
August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**
Publisher: Association for Computational Linguistics
Full text available: pdf(470.45 KB) Additional Information: full citation, abstract, references

NKRL is a conceptual language which intends to provide a normalised, pragmatic description of the semantic contents (in short, the "meaning") of NL narrative documents. We introduce firstly the general architecture of NKRL, and we give some examples of its characteristics features. We supply, afterward, some sketchy information about the inference techniques and the NLP procedures associated with this language.

10 Languages: Deeply embedded XML communication: towards an interoperable and seamless world

Johannes Helander
September 2005 **Proceedings of the 5th ACM international conference on Embedded software EMSOFT '05**
Publisher: ACM Press
Full text available: pdf(151.99 KB) Additional Information: full citation, abstract, references, index terms

Current consumer electronics devices do not interoperate and are hard to use. Devices use proprietary, device-specific and inflexible protocols. Resources across device classes, such as personal computers and home appliances cannot be taken advantage of. Even recent efforts to connect sensors into networks concentrate on new, ad-hoc protocols that segregate the low-cost devices into their own little world.If all classes of devices could speak the same language, they could talk directly to each o ...

Keywords: SOAP, XML, embedded systems, home networking, invisible computing, service oriented architecture

11 Quo Vadimus: computer science in a decade

J. F. Traub
June 1981 **Communications of the ACM**, Volume 24 Issue 6
Publisher: ACM Press
Full text available: Additional Information:

pdf(2.35 MB) full citation, abstract, citings, index terms

A panel discussion was held during the third biennial meeting of chairmen of Ph.D.-granting computer science departments in June, 1978 at Snowbird, Utah, a meeting sponsored by the Computer Science Board. Invitees from industry and government were also present. A report was prepared from tapes made of the discussion (Department of Computer Science, Carnegie-Mellon University: Report #CMU-CS-80-127, June 1980). It contained all the prepared statements of the panelists, lightly edited, and th ...

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1. **Event-Based Production Process Traceability Model**
Fucheng Pan; Hui Peng; Haibo Shi;
Intelligent Control and Automation, 2006. WCICA 2006. The Sixth World Congress on
Volume 2, 21-23 June 2006 Page(s):7211 - 7215
Digital Object Identifier 10.1109/WCICA.2006.1714485
AbstractPlus | Full Text: PDF(264 KB) IEEE CNF
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2. **Models for simulation and discrete control of manufacturing systems**
Beck, C.; Krogh, B.;
Robotics and Automation, Proceedings, 1986 IEEE International Conference on
Volume 3, Apr 1986 Page(s):305 - 310
AbstractPlus | Full Text: PDF(576 KB) IEEE CNF
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3. **Mapping peer behavior to packet-level details: a framework for packet-level simulation of pe**
He, Q.; Ammar, M.; Riley, G.; Raj, H.; Fujimoto, R.;
Modeling, Analysis and Simulation of Computer Telecommunications Systems, 2003. MASCOTS 2
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